	Application No.	Applicant(s)
Notice of Allowability		
	10/662,004 Examiner	COLBY ET AL. Art Unit
	Gary L. Laxton	2838
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communi IGHTS. This application is sub-	nis application. If not included cation will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the application filed 9</u>	<u>/11/03</u> .	
2. The allowed claim(s) is/are <u>1-36</u> .		
3. \boxtimes The drawings filed on <u>11 September 2003</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority ureal. All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" 	e been received. e been received in Application l cuments have been received in	No n this national stage application from the
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	1ENT of this application.	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) \square including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the header according to 37 CFR	drawings in the front (not the back) of 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		
1. Notice of References Cited (PTO-892)	<u> </u>	mal Patent Application (PTO-152)
 Notice of Draftperson's Patent Drawing Review (PTO-948) MInformation Disclosure Statements (PTO-1449 or PTO/SB/0 	Paper No./Ma	 Interview Summary (PTO-413), Paper No./Mail Date □ Examiner's Amendment/Comment
Paper No./Mail Date <u>8/30/04</u>		
4. Examiner's Comment Regarding Requirement for Deposit	<u> </u>	atement of Reasons for Allowance
of Biological Material	9.	Gary L. Laxton Primary Examiner 8/22/05 Art Unit: 2838

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-32 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claims 1-16; prior art fails to disclose or suggest, inter alia, a method of controlling a power inverter by calculating x-y phasor components of inverter output current and voltage referenced to a desired x-y coordinate frame; measuring real and reactive power output by the inverter based on the calculated x-y phasor components; and adjusting the inverter output current and voltage to reduce a difference between the measured real and reactive powers and desired real and reactive powers.

Claims 17-24; prior art fails to disclose or suggest, inter alia, a regulator circuit for controlling a power inverter having a measurement circuit to measure real and reactive power output by the inverter based on calculating x-y phasor components of inverter output current and voltage referenced to a desired x-y coordinate frame; and a feedback control circuit to control inverter voltage and current output based on a difference between the measured real and reactive powers and desired real and reactive powers.

Claims 25-28; prior art fails to disclose or suggest, inter alia, a computer readable medium storing a computer program comprising: program instructions to calculate x-y phasors for output voltage and output current from a power inverter configured to provide ac power; program instructions to measure real and reactive power output by the inverter based on the x-y

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phasors; program instructions to receive desired values for real and reactive power and to generate x-y control signals to control real and reactive power output by the inverter based on the measured real and reactive power and the desired values for real and reactive power.

Claims 29-36; prior art fails to disclose or suggest, inter alia, a power inverter having an inverter circuit to output ac power; a regulator circuit to control real and reactive power output by the inverter circuit, the regulator circuit comprising: a measurement circuit to measure real and reactive power output by the inverter circuit based on calculating x-y phasor components for voltage and current waveforms output by the inverter circuit; and a control circuit to control the real and reactive power output by the inverter circuit based on measured and desired real and reactive powers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,853,940 Tuladhar discloses an anti-islanding device and method for grid connected inverters; US 6,815,932 Wall discloses detection of island behavior and anti-islanding protection of a generator in grid connected mode; US 6,810,339 Wills discloses anti-islanding method and apparatus for distributed power

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generation; US 6,219,623 Wills discloses anti-islanding method and apparatus for distributed power generation

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary L. Laxton whose telephone number is (571) 272-2079. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gary L. Laxton
Primary Examiner

8/22/05

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